Goal: ENVIRONMENTAL PROTECTION AND ENHANCEMENT

Desired Community Condition(s)

Residents participate in caring for the environment and conserving natural resources.

Air, land and water systems protect health and safety.

Program Strategy: VEHICLE POLLUTION MANAGEMENT 56509

To protect public health by minimizing harmful vehicle pollutant emissions through the design and operation of cost-effective prevention and control programs.

Department: ***ENVIRONMENTAL HEALTH***

Service Activities

Vehicle Pollution Management

Strategy Purpose and Description

To protect the public health and air quality by minimizing harmful vehicle emissions through the design and operation of cost-effective prevention and control programs.

This is achieved by optimizing fuel combustion efficiency in motor vehicles thereby increasing fuel economy and reducing harmful pollutant emissions.

The customers are citizens, motorists, and AirCare inspectors. Currently, Albuquerque is in attainment of the National Ambient Air Quality Standards and motorists can obtain a no-appointment needed emission test at over 130 AirCare Stations for an average cost of $20 and as little as $10.

Changes and Key Initiatives

New car exemptions were extended to 2 years to enhance customer convenience and program credibility. Possible extension of new car exemption to 2 registration cycles or up to 4 years is being considered.

Priority Objectives

Input Measure ($000's)

2001	242	242 AIR QUALITY FUND	*1,172*
2002	242	242 AIR QUALITY FUND	*1,172*
2003	242	242 AIR QUALITY FUND	*990*
2004	242	242 AIR QUALITY FUND	*1,205*
2005	242	242 AIR QUALITY FUND	*1,252*

Strategy Outcome	*Measure*	*Year*	*Project*	*Mid Year*	*Actual*	*Notes*
Reduce vehicle emissions as a result of identifying and repairing gross polluting vehicles.	*PASSING TESTS-Vehicles that pass their biennial emission test*	2001	220,000		220,000	
		2002	210,000pas		209,737 passed	

	PASSING TESTS- Vehicles tht pass their biennial emission test	2003	222,000 pass			
	PASSING TESTS- Vehicles that pass their biennial emission test	2004	210,000 pass			*half of subject fleet tested per year*
		2005	210,000 pass			

Strategy Outcome	Measure	Year	Project	Mid Year	Actual	Notes
Reduce vehicle emissions as a result of identifying and repairing gross polluting vehicles	*FAIL/INVALID TESTS- Vehicles that fail their emission test or are in such disrepair that test can not be completed.*	2001	0,0		16,368fail, 9600 invalid	
		2002	16,000fail, 9,000 invalid		13,125 fail, 8,304 invali	
	FAIL/INVALID TESTS- Vehicles that fail their emission test or are in such disrepair that test can not be completed.	2003	22,550			
	FAIL/INVALID TESTS- Vehicles that fail their emission test or are in such disrepair that test can not be copleted	2004	22,500			*Vehicle cannot be registered without pass test or time extension for repair*
		2005	22,500			

Strategy Outcome	Measure	Year	Project	Mid Year	Actual	Notes
Reduce vehicle emissions as a result of identifying and repairing gross polluting vehicles	*RETEST PASS- Vehicles that fail an emission test are repaired and then retested.*	2001	0		9,904	*Retest Pass*
		2002	9,500		9,019	*9,500 Retest Pass*

	RETEST PASS- Vehicles that fail an emission test are repaired and then retested.	2003	8,300			
	RETEST PASS- Vehicles that fail an emission test are repaired and retested	2004	8,500			*On average, repaired vehilces realized an 83% reduction in hydrocarbons*
		2005	8,500			

Strategy Outcome	*Measure*	*Year*	*Project*	*Mid Year*	*Actual*	*Notes*
Maintain National Ambient Air Quality Standards by reducing vehicle emissions via the Vehicle Inspection & Maintenance and the Oxygenated Fuels programs.	*TONS OF CO PER DAY WITH/WITHOUT VEHICLE POLLUTION MANAGEMENT PROGRAM*	2001	0,0		206 with/319 without	
		2002	202 with/315 without		202 with/315 without	
	TONS OF CO PER DAY WITH/WITHOUT VEHICLE POLLUTION MANAGEMENT PROGRAM	2003	207 with/310 w/o			
Motor vehilces are the principal source of air pollutants inthe Middle Rio Grande Valley Airshed	*TONS OF CO PER DAY WITH/WITHOUT VEHICLE POLLUTION MANAGEMENT PROGRAM*	2004	207 with/310 w/o			*CO tons per day derived from required EPA models which consider fleet mix, vehilce miles of travel, average speeds by roadway type, oxyfuel programs and test and repair program type*
		2005	207 with/310 w/o			

Strategy Outcome	Measure	Year	Project	Mid Year	Actual	Notes
Reduce local consumption of gasoline	*GALLONS PER DAY DISPLACED Properly maintained and/or repaired vehicles get better gas mileage and the oxygenated fuels program displaces gasoline with domestically produced ethanol*	2001	see notes			*FY/02: 90,000 of 1,058,000* *FY/01: 85,000 of 1,004,000*
		2002	in notes			*8.5% for 4 months* *90,000 of 1,058,000*
		2003	8% for 4 m			*90,000 of 1,058,000 gallons per day*
		2004	8% for 4 m			*90,000 of 1,058,000 gallons per day*
		2005	8% for 4 m			

Goal: ENVIRONMENTAL PROTECTION AND ENHANCEMENT

Parent Program Strategy: VEHICLE POLLUTION MANAGEMENT

Department: *ENVIRONMENTAL HEALTH*

Service Activity: Vehicle Pollution Management **5609000**

Service Activity Purpose and Description

The Vehicle Inspection and Maintenance program provides quality assurance oversight of a decentralized (private contractors) emission-testing network to ensure convenient, affordable testing service while preventing consumer fraud. Program staff provides training, techni-cal assistance, and regulation of private AirCare inspec-tors, stations, and equipment. Program staff also over-sees the winter Oxygenated Fuels program ensuring that only cleaner burning oxygenated fuel is used during winter months when vehicle cold-starts result in exces-sive carbon monoxide and hydrocarbon emissions. Primary customers are the citizens of Bernalillo County, vehicle owners, and AirCare inspectors and station owners. Currently, the public health based National Ambient Air Quality Standards are being maintained.

To ensure compliance with this program, the department conducts three different types of audits of air care stations on a quarterly basis. Therefore, each air care station is audited at least once per month.

Changes and Key Initiatives

Implemented a pilot low-income assistance vehicle repair program to assist citizens in obtaining timely and effective repairs of their excessively polluting vehicles. In lieu of fining or suspending Air Care stations for non-fraudulent violations, VPMD has entered into Community Service Agreements wherein the station establishes a repair assistance fund at a local licensed repair facility. VPMD then refers qualified vehicles to the repair facility and monitors the cost and effectiveness of the repairs. This results in an immediate fuel economy and air quality benefit where suspending a station or granting a time extension for repair to the vehicle owner do not.

Input Measure ($000's)

2002	242	242 AIR QUALITY FUND	1,172
2003	242	242 AIR QUALITY FUND	990
2004	242	242 AIR QUALITY FUND	1,205
2005	242	242 AIR QUALITY FUND	1,252

Strategic Accomplishments

FY/02: Develop specifications for 4-gas analyzer with OBDII and gas cap test capability

FY/03 (projected): Implement new 4-gas analyzer with OBDII test and real-time electronic data transfer to MVD and VPMD capability.

Output Measures	*Year*	*Projected*	*Mid-Year*	*Actual*	*Notes*
# of Covert Audits compared to # of AirCare stations	2001			150/136	
# of Covert Audits compared to # of AirCare stations	2002	150/134		160/133	
# of Covert Audits compared to # of AirCare stations	2003	150/130			
	2004	150/130			
	2005	150/130			

Output Measures	*Year*	*Projected*	*Mid-Year*	*Actual*	*Notes*
# of Field Audits compared to # of AirCare stations	2001			1632/136	*1,608 / 134*
# of Field Audits compared to # of AirCare stations	2002	1,608/134		2,913/133	*1,608 / 134*

# of Field Audits compared to # of AirCare stations	2003	2,780/130			
	2004	1,560 / 130		*1,596/ 133*	
	2005	1,560 / 130			

Output Measures	***Year***	***Projected***	***Mid-Year***	***Actual***	***Notes***
# of Oxyfuel Samples compared to total # of tanks	2001			738/765	
# of Oxyfuel Samples compared to total # of tanks	2002	765/765		732/760	
# of Oxyfuel Samples compared to total # of tanks	2003	760/760			
	2004	760/760			
	2005	760/760			

Output Measures	***Year***	***Projected***	***Mid-Year***	***Actual***	***Notes***
# of Remote Sensing Unit Tests	2001			25,000	
# of Remote Sensing Unit Tests	2002	30,000		43,000	
# of Remote Sensing Unit Tests	2003	36,000			
	2004	36,000			
	2005	36,000			

Output Measures	***Year***	***Projected***	***Mid-Year***	***Actual***	***Notes***
Public visits to referee center for free retest following repair, time extension for major repair or diesel testing	2001			7,788	
Public visits to referee center for free retest following repair, time extension for major repair or diesel testing	2002	7,920		6,718	
Public visits to referee center for free retest following repair, time extension for major repair or diesel testing	2003	7,280			
	2004	7,500			
	2005	7,500			